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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/894,879	06/29/2001	Paul Glatkowski	38572.0024	4705
26633	7590 04/14/2003			
HELLER EHRMAN WHITE & MCAULIFFE LLP			EXAMINER	
SUITE 300	-		WYROZEBSKI LEE, KATARZYNA I	
WASHING	N, DC 20006		ART UNIT	PAPER NUMBER
			1714	

DATE MAILED: 04/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/894,879	GLATKOWSKI ET AL.			
Office Action Summary		Examiner	Art Unit			
		Katarzyna Wyrozebski Lee	1714			
	- The MAILING DATE of this communication ap	pears on the cover sheet with the	e correspondence address			
Period for	r Reply					
THE N - Exten after S - If the - If NO - Failur - Any re earne	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Is ions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statuely received by the Office later than three months after the mailing datent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be only within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS from the property ARANDO	e timely filed days will be considered timely. rom the mailing date of this communication. NED (35 U.S.C. § 133).			
Status	n and the communication(s) filed on 31	March 2003 .				
1)⊠	Responsive to communication(s) filed on 31	his action is non-final.				
2a) <u></u>	This action is FINAL . 2b)⊠ T Since this application is in condition for allow		prosecution as to the merits is			
3) 🗌	Since this application is in condition for allow closed in accordance with the practice unde ion of Claims	er Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.			
	Claim(s) <u>23-49 and 52-103</u> is/are pending in	the application.				
7/63	4a) Of the above claim(s) <u>55-75</u> is/are withdra	awn from consideration.				
6)⊠ 6)⊠	S) Claim(s) 23,24,26,29-44,46-49,52,76,77,79,82-87,89 and 91-101 is/are rejected.					
7)🖂		102, 103 is/are objected to.				
8)[]	Claim(s) are subject to restriction and	/or election requirement.				
	ion Papers					
9)	The specification is objected to by the Exami	ner.				
10)	The drawing(s) filed on is/are: a) ac	cepted or b) \square objected to by the $\mathfrak k$	Examiner.			
	Applicant may not request that any objection to	the drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	is: a)⊡ approved b)⊡ disa	pproved by the Examiner.			
	If approved, corrected drawings are required in					
12)	The oath or declaration is objected to by the	Examiner.				
Priority	under 35 U.S.C. §§ 119 and 120		(0) (1) (1)			
13)	Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
a)					
	1. Certified copies of the priority docume	ents have been received.				
	2. Certified copies of the priority docume	ents have been received in Appl	lication No			
*	3. Copies of the certified copies of the papplication from the International See the attached detailed Office action for a	list of the certified copies not rec	ceived.			
141	Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C. § 1	119(e) (to a provisional application).			
ļ	a) The translation of the foreign language Acknowledgment is made of a claim for dom	provisional application has been	n received.			
2) No	ent(s) tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO-1449) Paper No	5) Notice of Info	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)			
U.S. Patent an	d Trademark Office	e Action Summary	Part of Paper No. 17			

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In view of the newly submitted Information Disclosure Statement, the examiner of record hereby withdraws the finality of the office action and new prior art is applied.

In the light of the properly filed terminal disclaimer, Obviousness Double Patenting rejection is hereby overcome.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 23, 24, 26, 29-44, 46-49, 52, 76-77, 79, 82-87, 89, 91-101 are rejected under 35 U.S.C. 102(e) as being anticipated by Lavine (US 6,426,134) in view of evidence given in Newman (US 6,299,812).

The prior art of Lavine discloses composite comprising a polymer and single-wall carbon nanotubes (see Title).

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The composition of Lavine is utilized to make fibers, films and other articles (see Abstract) that have electric and magnetic properties (col. 1, lines 18-21).

The articles are form *via* extrusion by mixing polyethylene terephthalate (see example 4) with the nanotubes. Extruder will inherently impose a shearing force on the composite while mixing, and such would further align while passing through an orifice (col. 7, lines 41-43). Such alignment is perfectly illustrated in figure 1 of the US patent 6,299,812 incorporated hereby as evidence.

In example 4, the carbon nanotubes are utilized in an amount of 1 % by weight. They are further defined in the specification as having length of 10-300 nm and diameter of 1-2 nm. Since aspect ratio is a ratio of length to diameter, then the nanotubes of Lavine have aspect ratio of at most 300:1 (col. 2, lines 30-34).

Carbon nanotubes of the prior art of Lavine are not in touch with each other and they are uniformly dispersed in the polymeric matrix (col. 2, lines 35-37).

As it is stated in the beginning of this paragraph, the nanotubes of the prior art of Lavine are useful for its electric and magnetic properties. Since the composition of the prior art of Lavine has a polyethylene terephthalate polymer with 1 % loading of the single wall carbon nanotubes of aspect ratio, and all of which components are squarely in the middle of the numeric values of the present invention the electromagnetic properties of the composition, which include is absorption of EM radiation as well as its enhanced absorption due to alignment and generation of heat are all considered inherent, since they all are result of the components utilized in the composition.

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In the light of the above disclosure, the prior art of Lavine anticipates requirements of claims rejected above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katarzyna Wyrozebski Lee whose telephone number is (703) 306-5875. The examiner can normally be reached on Mon-Thurs 6:30 AM-4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (703) 306-2777. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

KIWL April 11, 2003 EDWARD J. CAIN PRIMARY EXAMINER GROUP 1500